

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-260843

(43)Date of publication of application : 13.09.2002

(51)Int.Cl.

H05B 33/00

G09F 9/30

G09G 3/20

G09G 3/30

H05B 33/12

H05B 33/14

H05B 33/22

H05B 33/26

(21)Application number : 2001-056190

(71)Applicant : NEC CORP

(22)Date of filing : 01.03.2001

(72)Inventor : HAYASHI KAZUHIKO

FUKUCHI TAKASHI

TSUBOI SHINZO

ODA ATSUSHI

## (54) ORGANIC LIGHT EMITTING DEVICE

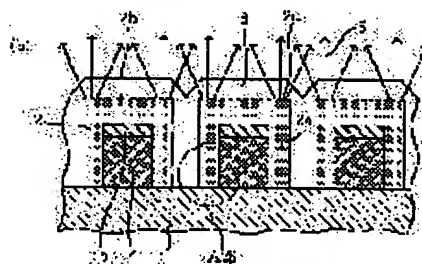
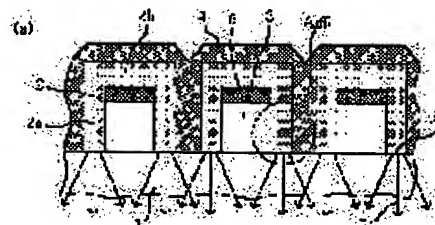
(57)Abstract:

**PROBLEM TO BE SOLVED:** To improve the luminous efficiency of a light-emitting element by making that the light emitted from a luminous material layer does not become an invalid light as much as possible.

**SOLUTION:** (a) A positive electrode 6 and a pattern of a hole injection blocking layer 3 are formed on a substrate 1 in a stripe form in a rectangular shape of cross section. The surroundings of the positive electrode 6 and the pattern of the hole injection blocking layer 3 are enclosed by a luminous material layer 2. The outside of the luminous layer 2 is enclosed by a negative electrode 4.

(b) Or a negative electrode 4 and a pattern of an electron injection blocking layer 10 are formed on a substrate 1 in a stripe form in a rectangular shape of cross section. The

surroundings of the negative electrode 4 and the pattern of the electron injection blocking



layer 10 are enclosed by a luminous material layer 2, and its outside is surrounded by a positive electrode 6. The light emitted at the hole/electron recombination layer 9 of the luminous material layer 2 held between the positive electrode 6 and the negative electrode 4 is taken out as a valid light 5 from the side end face 1a of the luminous material layer or from the top face 1e of the luminous material layer.

---

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office